



DLMS XML Update

Supply PRC

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Adapting DLMS XML to the New World of CCT-based XML

- DLMS EDI-Based XML is derived from respective ASC X12 EDI transactions. (*status quo*)
 - Based on Guideline XML (gXML) v2.0 which is an open XML based model for converting native EDI specifications into XML schemas
 - Automatically generated with changes in DLMS EDI
 - Relies on EDI structure and tag names
- DLMS CCT-based XML refers to XML based on UN/CEFACT Technical Specifications. (*emerging*)
 - UN/CEFACT Modeling Methodology (UMM)
 - ebXML - Core Component Technical Specifications (CCTS)
 - ebXML - ISO Core Component Types (CCTs)
 - UN/CEFACT XML Naming and Design Rules



DLMSO Role in XML Standards Bodies

- DLMSO intends to play a stronger leadership role within the ANSI ASC X12, UN/CEFACT, OASIS.
 - To harmonize differences and document a standard approach across DoD Logistics.
 - To identify commonalities between XML variants and standards
 - To work together to get the standards approved through the UN/CEFACT, OASIS and ASC X12 standards bodies.



DLMSO XML Highlights

- Well on our way to establishing an XML/Metadata Strategy.
 - DRAFT document circulating in DLMSO and DAASC
 - Highlights OASIS, ASC X12, and UN/CEFACT participation
 - provides process for submitting and identifying changes in EDI-based and CCT-based XML
 - lays out high level implementation plan for CCT-based XML development and documentation
- Working with the AFMC and NAVSISA to incorporate GFM in CICA.
 - Intent is to convert Government Furnished Material Transaction Reporting system (GFMTR) from its legacy system to CAV II in FY08
 - Potential savings of \$650M!
- Working with the WAWF/BTA and the Navy Financial community to model the 856, 861 and 824 documents in CICA and ebXML.
 - ERP systems will have an integrated solution for logistics and financial transactions resulting from the business events that occur when the vendor provides shipment and/or invoice data.



Why DLMS XML?

- Provides flexible information exchange designed for Web based applications
- DLMSO has developed W3C compliant XML schemas, using EDIFICS SpecBuilder tool (EDI-based)
- DLMSO participating/supporting various standards bodies (ASC X12, UN/CEFACT, OASIS, DON XML)
- DAASC & BTA GEX have capability to translate
 - MILS/DLSS, DLMS X12 EDI and DLMS XML
- Using DLMS XML:
 - Takes advantage of both legacy system and EDI capability
- DLMSO is preparing the DLMS Data Model and associated mappings to bridge the gaps between XML variants



Relationship of XML Variants

EDI-based XML

CCT-based XML

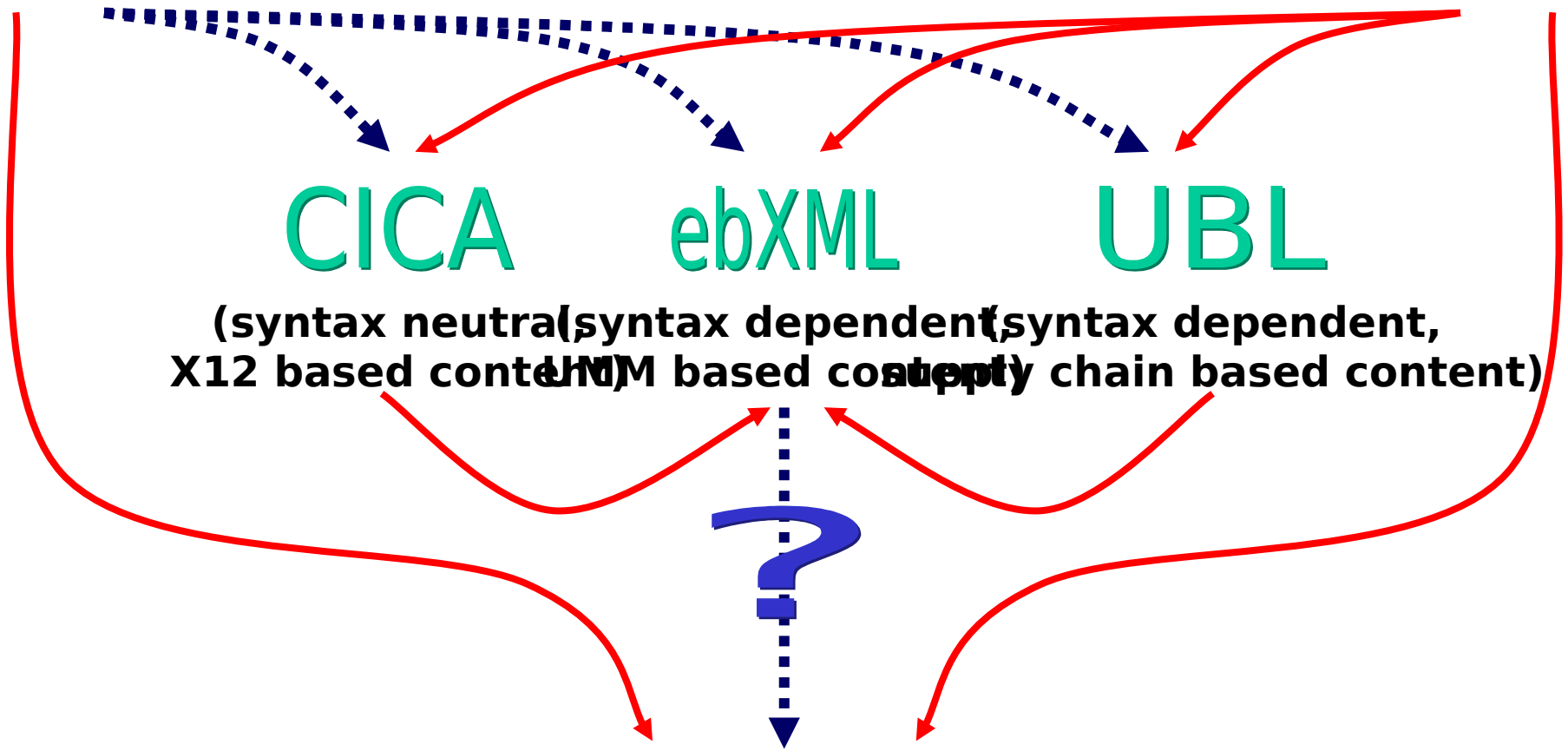
CICA

ebXML

UBL

(syntax neutral, X12 based content) (syntax dependent, UN EDI based content) (syntax dependent, supply chain based content)

DLMS XML





Future of XML within DLMSO

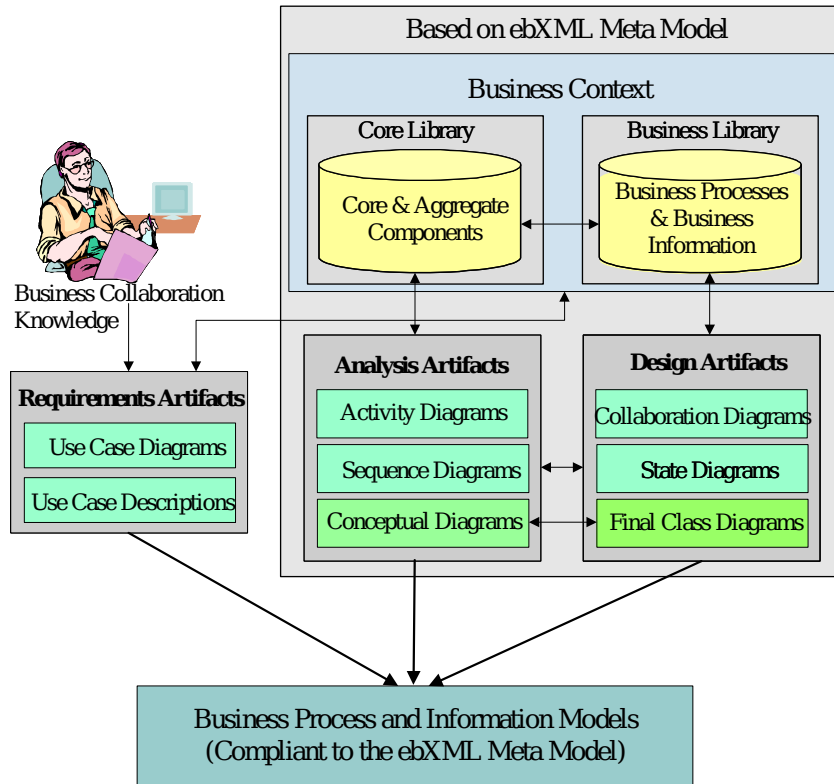
- Maintain existing and develop new DLMS X12 EDI
- Maintain current DLMS EDI based XML schemas
- Participate in ASC X12, UN/CEFACT and OASIS
- Adopt International Organization of Standards (ISO) 11179 standards
- Use ISO 15000-5 ebXML Core Components Technical Specifications (CCTS) & methodology as basis for building reusable constructs;
- Develop and maintain CCT-based XML message schemas
- Support the functionality required by the Logistics Community and which DLMSO has been delegated responsibility (DOD 4000.25-M).



Backup



Detailed Representation of the ebXML Business Operational View



- Business Collaboration Knowledge is captured in a *Core Library*.
- 1. Definition of requirements & artifacts that describe the problem using *Use Case Diagrams and Descriptions*.
- 2. Analysis will create activity and sequence diagrams (as defined in the *UN/CEFACT Modeling Methodology* specification) describing the Business Processes.
- 3. Design phase is the last step of standardization, which MAY be accomplished by *applying object-oriented principles* based on the *UN/CEFACT Modeling Methodology*.
- In ebXML, interoperability is achieved by applying *Business Information Objects* across all class models.



CICA Constructs

